

## **Portable GPS & Battery Cradle for iPod touch**

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**INSTALLATION/  
OWNER'S MANUAL**

**Dual**

# Dual<sup>®</sup> INSTALLATION

## Preparation

The Portable GPS & Battery Cradle provides both GPS location data and backup battery power to any 1st, 2nd, 3rd or 4th generation iPod touch®. Use the included Car Windshield Mount to secure the iPod and GPS Cradle in a vehicle for easy access while on the road.

**Note:** The GPS Cradle is only designed to fit an iPod touch. Inserting any other device, such as iPhone® can cause damage to both the unit and the device.

### Mounting Location

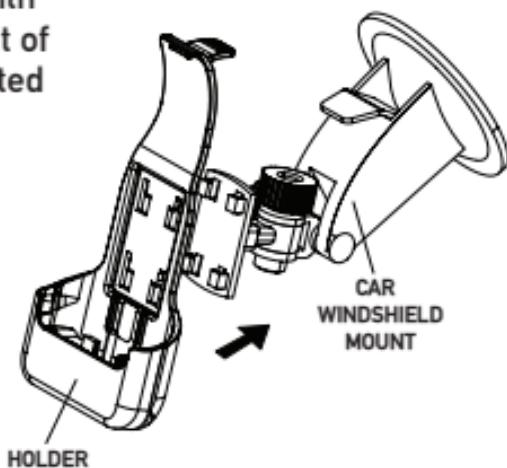
- Attach Mount in location that is easily within reach from driver's seat.
- Ensure that chosen location will not obstruct visibility, mirrors, airbags or any vehicle controls.

**Note:** Certain states regulate mounting locations for safety reasons. Be sure to check and adhere to local regulations when attaching Mount.

### Attaching Holder

- Align four slots on back of Holder with four clips on front of Mount as illustrated in Figure 1 (at right). Slide until Holder clicks into place.

Figure 1



## Installation

### Installing Car Windshield Mount

- For best hold, first clean the windshield glass in desired mounting location.
- Raise lever on Mount, attach to Mount to window in desired location and depress lever to secure.

### Attaching iPod touch

- Slide iPod touch into Cradle as illustrated in Figure 2 (below). Please be sure to use the spacer pad and/or insert depending on the model of touch you are using (see page 4).

Figure 2

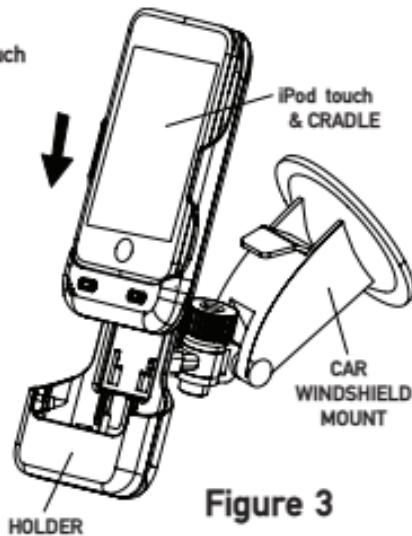
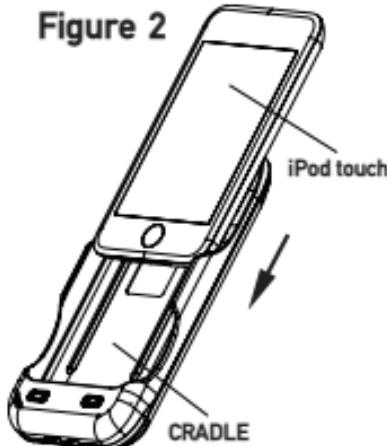
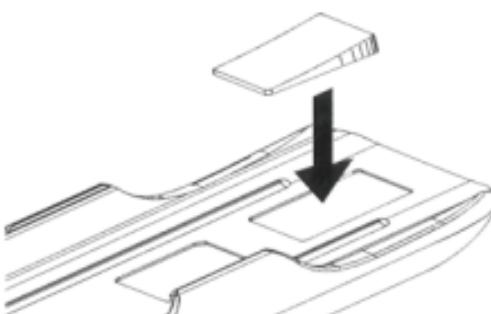


Figure 3

- Slide iPod touch and Cradle into Holder as illustrated in Figure 3 (above).
- To adjust viewing angle, tighten octagonal nut to hold the Holder in place, then rotate to desired viewing angle.

## Installation of Spacers

**IMPORTANT:** There is a spacer pad and a special insert included with your GPS Cradle. These are provided for use with 2nd, 3rd and 4th generation models of the iPod touch. They ensure that the iPod is held securely in the GPS Cradle. You may damage your iPod if you use the iPod in the Cradle without the spacer pad (and the insert with the 4th generation touch.)



For the 2nd, 3rd and 4th generation models of the touch, peel off the back of the spacer pad to reveal the adhesive and insert as shown.

Additionally for the 4th generation models of the touch, snap the plastic insert into the GPS Cradle between the side clips as shown. Double check that the clips on the GPS Cradle fit into the recesses on the side of the spacer. You must use this spacer to prevent damage to the touch. If this insert is missing from your product, please call Customer Service for a replacement and do not insert the iPod.



# Dual<sup>®</sup> INSTALLATION

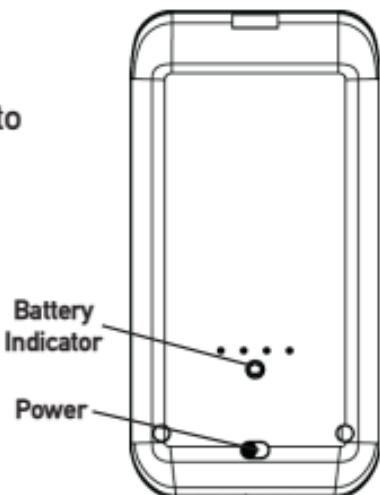
## Cradle Controls

### Battery Indicator

Press **Battery Indicator** button, and the four LED lights above will illuminate to indicate current charge.

### Power Switch

Move **Power** switch to GPS to power GPS function. When not using GPS, move **Power** switch to Battery to charge iPod touch or to Off to save battery.



### Volume

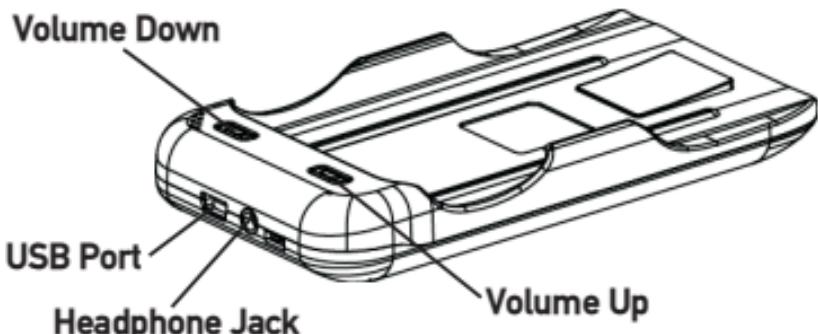
Volume controls on Cradle allow easy volume adjustment.

### Headphone Jack

To listen with headphones, plug headphones into headphone jack at base of unit.

### USB Port

Use included mini USB to USB cable to connect unit to computer for charging / syncing iPod.



## Holder Wiring

### 12V Power Adaptor

Use included 12V power adaptor to connect Holder to vehicle's power source to power GPS and charge iPod.

### Audio Out

Use Audio Out port to connect Holder to vehicle stereo system with 3.5 mm mini stereo audio cable.

### Removing iPod

To remove iPod and Cradle from Holder, pull back on tab at top of Holder, and iPod and Cradle will slide out easily.

**Note:** The GPS will operate even when iPod and Cradle are not positioned in Holder.

## Tips for Best Performance

### Hold the GPS Cradle Upright

The GPS antenna is near the top of the Cradle and faces out the back. Try to avoid covering the antenna with your hand or laying it down on its back for long periods of time. The Cradle performs best when it has an unobstructed view of the sky.

### Temporarily turn off WiFi

When turning on the GPS Cradle, you can often shorten the amount of time required to determine your position by temporarily turning off WiFi on the iPod. Once the iPod is showing your location (in any app), you can turn WiFi back on.

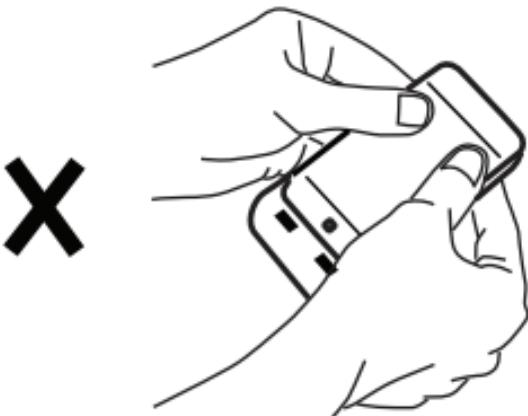
## Tips for Best Performance

### How to Remove the iPod from the Cradle

The correct way to remove the iPod from the GPS Cradle is to grasp the iPod at the top with one hand, and hold the GPS Cradle firmly with the other. Pull gently on the iPod to remove it from the Cradle.



**Warning:** Do not apply pressure to the iPod screen when removing it from the Cradle. This can damage your iPod.



## Tips for Best Performance

### What apps work with the GPS Cradle?

Most apps will work with the GPS Cradle: navigation apps, golfing apps, hiking apps, geocaching apps, social networking apps, etc. Just double-check that the app you are interested in is available for the iPod touch, and whether the app requires a full time network connection in order to work.

### Keep the Cradle Dry

Although the GPS Cradle will pick up GPS signals inside your car on a rainy day, the Cradle is not weatherproof and should be kept away from water.

## SPECIFICATIONS



### General

Cradle Dimensions (WxHxD) : 2.5" x 5.1" x 0.8"

Holder Dimensions (WxHxD) : 2.8" x 5.8" x 1.0"

### Voltage

Cradle input voltage: 5V DC.

Note: Please use only the included USB cable for connecting to a computer.

Holder input voltage : 5V DC

Note: Please use only the included cigarette jack power adapter for in-car use.

### Cigarette jack power adapter

Input : 12V DC ~ 24 V DC

Output : 5V DC

### GPS

50-channel u-blox5 engine

### Internal Battery

Capacity: 1,100mAH

Operation time: approximately 10 hours  
(GPS mode, volume level set at 50%)

Charging time : 4 hours

# SPECIFICATIONS



## **Environmental Requirements**

### **With iPod touch**

Operating temperature: 32° to 95° F (0° to 35° C)

Nonoperating temperature: -4° to 113° F (-20° to 45° C)

Relative humidity: 5% to 95% noncondensing

### **Without iPod touch**

Operating temperature: 14° to 140° F (-10° to 60° C)

Nonoperating temperature: -4° to 176° F (-20° to 80° C)

Relative humidity: 5% to 95% noncondensing

**Design and specifications are subject to change without notice.**

### **Please Note**

This GPS Cradle is not waterproof or water resistant, and should be protected from rain and splashing liquids. The GPS Cradle also does not provide any protection to the iPod from liquids, dirt or dust.

### **IC Compliance**

This Class [B] digital apparatus complies with Canadian ICES-003.



## Limited One-Year Warranty

This warranty gives you specific legal rights. You may also have other rights which vary from state to state. Dual Electronics Corp. warrants this product to the original purchaser to be free from defects in material and workmanship for a period of one year from the date of the original purchase.

Dual Electronics Corp. agrees, at our option, during the warranty period, to repair any defect in material or workmanship or to furnish an equal new, renewed or comparable product (whichever is deemed necessary) in exchange without charges, subject to verification of the defect or malfunction and proof of the date of purchase. Subsequent replacement products are warranted for the balance of the original warranty period.

**Who is covered?** This warranty is extended to the original retail purchaser for products purchased from an authorized Dual dealer and used in the U.S.A.

**What is covered?** This warranty covers all defects in material and workmanship in this product. The following are not covered: software, installation/removal costs, damage to the product or the iPod resulting from accident, misuse, abuse, neglect, product modification, improper installation, incorrect line voltage, unauthorized repair or failure to follow instructions supplied with the product, or damage occurring during return shipment of the product. Specific license conditions and copyright notices for any associated software can be found via <http://www.dualav.com>.



## Limited One-Year Warranty (Cont'd)

### What to do?

1. Before you call for service, check the troubleshooting guide in your owner's manual. A slight adjustment of any custom controls may save you a service call.
2. If you require service during the warranty period, you must carefully pack the product (preferably in the original package) and ship it by prepaid transportation with a copy of the original receipt from the retailer to an authorized service center.
3. Please describe your problem in writing and include your name, a return UPS shipping address (P.O. Box not acceptable), and a daytime phone number with your shipment.
4. For more information and for the location of the nearest authorized service center please contact us by one of the following methods:
  - Call us toll-free at 1-866-382-5476
  - E-mail us at [cs@dualav.com](mailto:cs@dualav.com)

**Exclusion of Certain Damages:** This warranty is exclusive and in lieu of any and all other warranties, expressed or implied, including without limitation the implied warranties of merchantability and fitness for a particular purpose and any obligation, liability, right, claim or remedy in contract or tort, whether or not arising from the company's negligence, actual or imputed. No person or representative is authorized to assume for the company any other liability in connection with the sale of this product. In no event shall the company be liable for indirect, incidental or consequential damages.

## FCC Compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment under FCC rules.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



Dual Electronics Corp.  
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